(E,Z)-1,2-Diethylidenecyclopentane

Inchi: InChI=1S/C9H14/c1-3-8-6-5-7-9(8)4-2/h3-4H,5-7H2,1-2H3/b8-3-,9-4+
InchiKey: PSMXGHHIXPUKSP-SNXNNQDSSA-N
Formula: C9H14
SMILES: CC=C1CCCC1=CC
Mol. weight [g/mol]: 122.21

Physical Properties

Property code	Value	Unit	Source
gf	160.08	kJ/mol	Joback Method
hf	3.79	kJ/mol	Joback Method
hfus	12.58	kJ/mol	Joback Method
hvap	37.77	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	3.063		Crippen Method
mcvol	118.210	ml/mol	McGowan Method
pc	3049.04	kPa	Joback Method
rinpol	969.00		NIST Webbook
rinpol	969.00		NIST Webbook
tb	438.55	K	Joback Method
tc	644.95	K	Joback Method
tf	227.05	K	Joback Method
vc	0.448	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.85	J/mol×K	438.55	Joback Method
cpg	296.15	J/mol×K	610.55	Joback Method
cpg	284.39	J/mol×K	576.15	Joback Method
cpg	271.92	J/mol×K	541.75	Joback Method
cpg	258.70	J/mol×K	507.35	Joback Method
cpg	244.69	J/mol×K	472.95	Joback Method
cpg	307.24	J/mol×K	644.95	Joback Method
dvisc	0.0002265	Pa×s	438.55	Joback Method

dvisc	0.0002817	Pa×s	403.30	Joback Method
dvisc	0.0003653	Pa×s	368.05	Joback Method
dvisc	0.0005006	Pa×s	332.80	Joback Method
dvisc	0.0007391	Pa×s	297.55	Joback Method
dvisc	0.0012116	Pa×s	262.30	Joback Method
dvisc	0.0023157	Pa×s	227.05	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R288385&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume